

posteriorly it is nearly smooth and shining. Pleuræ and epinotum with rather coarse, distinctly longitudinal rugæ. Epinotal spines small, acute, straight. Petiole with pointed node and more abruptly declivous posterior slope than in the worker, its dorsal surface scarcely flattened. Postpetiole very convex in front above. Sculpturing of petiole and postpetiole as in the worker. Color of head, thorax and pedicel reddish-brown, darker on the dorsal surface. Gaster black. Pilosity of body and legs and color of the latter much as in the worker. Wings whitish-hyaline; veins and stigma yellow.

*Male*.—Length 2–2.5 mm.

Head exclusive of the mandibles broader than long, cheeks short, posterior angles convex and rounded. Mandibles overlapping each other. Antennæ 13-jointed; scape as long as the first four joints of the funiculus, club very distinct, 4-jointed, the first, second and third subequal, fully  $1\frac{1}{2}$  times as long as broad, apical joint as long as the second and third together; first funicular joint somewhat swollen, fully  $1\frac{1}{2}$  times as long as broad; joints 2–8 longer than broad. Epinotum with two very small, indistinct protuberances in the place of the spines. Petiole slender, in profile concave below; anterior dorsal slope nearly straight, gradual, posterior slope shorter, abruptly declivous, rather concave. Postpetiole campanulate, about as long as broad;  $1\frac{1}{2}$  times as broad as the petiole. Legs long and slender.

Mandibles striated. Clypeus coarsely and irregularly reticulate-rugose, shining. Head subopaque, evenly and rather delicately reticulate-rugose. Neck finely reticulate; mesonotum shining, with a faint reproduction of the irregular rugosity of the worker; remainder of thorax and the pedicel delicately reticulate-punctate. Gaster smooth and shining.

Hairs white, non-clavate, long and moderately abundant on the mandibles, pedicel and gaster; sparser elsewhere.

Black; mandibles and genitalia yellow; antennal funiculus grayish-brown; wings like those of female; legs like those of the worker in color.

Type locality: Milano, Millan County, Tex.

All three sexual phases of this species were taken May 23, 1902, in nests consisting of a few small galleries, 3–4 inches long, excavated in the sand in rather damp spots under post-oaks and cedars.

**13. *Leptothorax tricarinatus* Emery.**

*L. tricarinatus* Emery, Zool. Jahrb. Abth. f. Syst., VIII, 1894, pp. 318, 321, 322. ♂.

*Worker* (Pl. XII, fig. 17).—Length 2.25 mm.

Clypeus produced in front in the middle, obtusely angulate, above